



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : C07D 205/12, C12P 41/00, C12N 1/20 // (C12N 1/20, C12R 1:38)		A1	(11) International Publication Number: WO 00/58283
			(43) International Publication Date: 5 October 2000 (05.10.00)
(21) International Application Number: PCT/GB00/01198		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 29 March 2000 (29.03.00)			
(30) Priority Data: 9907415.5 31 March 1999 (31.03.99) GB			
(71) Applicant (for all designated States except US): CHIROTECH TECHNOLOGY LIMITED [GB/GB]; Cambridge Science Park, Milton Road, Cambridge CB4 0WG (GB).			
(72) Inventors; and (73) Inventors/Applicants (for US only): TAYLOR, Stephen, John, Clifford [GB/GB]; Chirotech Technology Limited, Cambridge Science Park, Milton Road, Cambridge CB4 0WG (GB). KEENE, Philip, Alexander [GB/GB]; Chirotech Technology Limited, Cambridge Science Park, Milton Road, Cambridge CB4 0WG (GB).		Published With international search report. With amended claims and statement.	
(74) Agent: GILL JENNINGS & EVERY; Broadgate House, 7 Eldon Street, London EC2M 7LH (GB).			

(54) Title: BIOCATALYST AND ITS USE IN ENZYMATIC RESOLUTION OF RACEMIC BETA-LACTAMS

(57) Abstract

A process for the preparation of an enantiomerically enriched β -lactam, comprises enantioselective hydrolysis of the corresponding racemic β -lactam in the presence of a lactamase enzyme capable of enantioselective hydrolysis of 3-azatricyclo[4.2.1.0^{2,5}]non-7-en-4-one and 7-azabicyclo[4.2.0]oct-4-en-8-one.